



Performance Curves

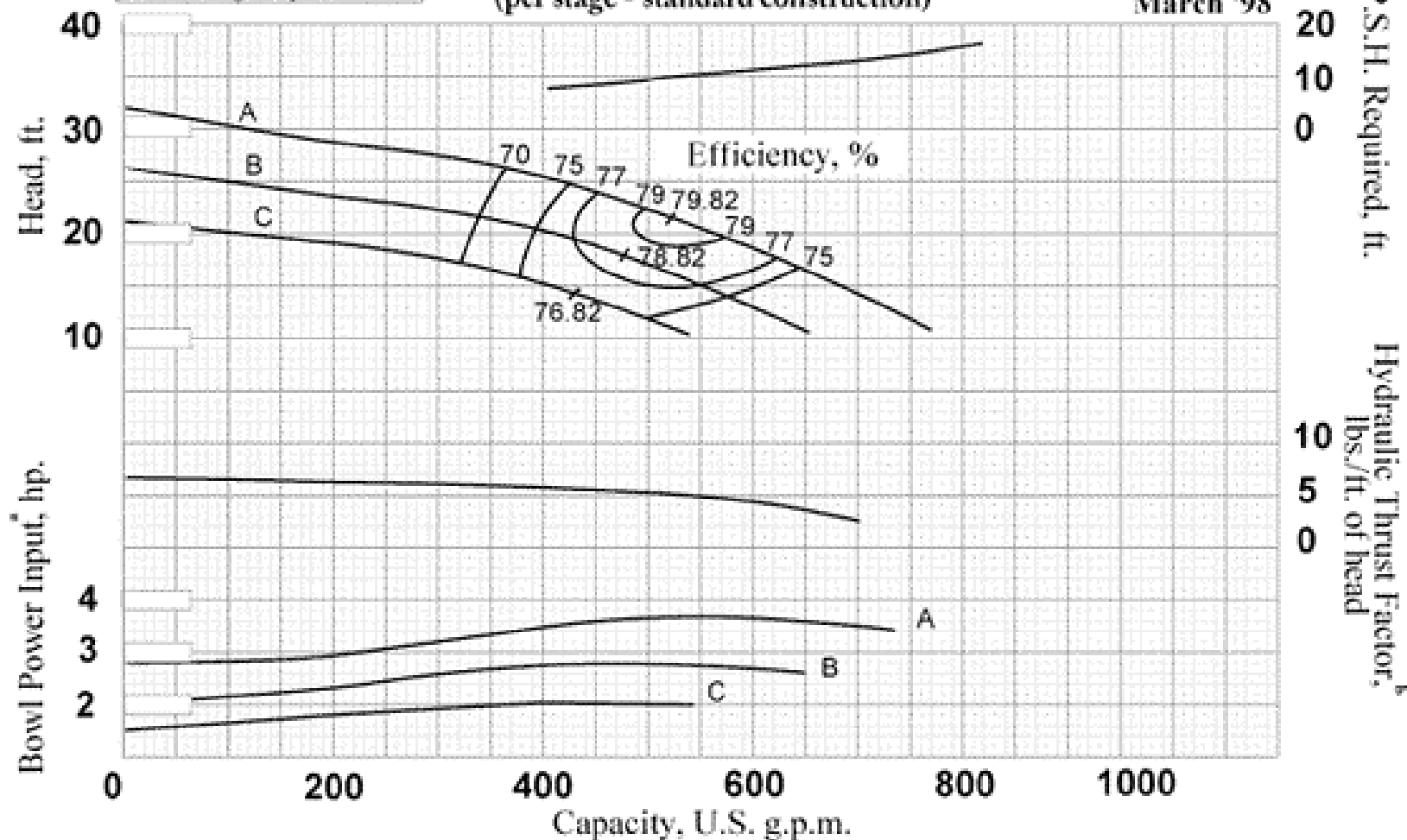
8-H-50

1760 RPM

Number of Stages Required:

(per stage - standard construction)

March '98



8-H-50 1760 RPM

| Impeller Data | | | | | | Bowl Data | |
|---|---------------------------------------|---|---|---|----|---------------------------|-----------------|
| Impeller Model | 8-H-50 | | | | | Bowl Model | 8-H |
| Type | Enclosed | | | | | Connection Type | Threaded |
| Diameter: A= | 6.145" | | | | | Outside Diameter: nominal | 7.875" |
| B= | 5.745" | | | | | minimum | 7.500" |
| C= | 5.345" | | | | | Column Pipe Size: minimum | 6" |
| Hydraulic Thrust Factor | 5.2 lbs/ft of head @ peak efficiency | | | | | maximum | 8" |
| Impeller Weight | 5.3# | | | | | Suction Pipe Size | 6" |
| Number of Vanes | 7 | | | | | Shaft Size: standard | 1.250" |
| Specific Speed (Ns) | 3874 | | | | | maximum | Consult Factory |
| Effective Eye Area | 12.79 in² | | | | | Lateral: standard | 0.625" |
| W (r sq.) | 0.201 lbs -ft² | | | | | maximum | Consult Factory |
| Eye Fluid Velocity | 0.03 ft/sec/gpm | | | | | Shaft Bearing Clearance | 0.010" |
| Peripheral Velocity | 7.68 ft/sec/inch of impeller diameter | | | | | Impeller Skirt Clearance | 0.015" |
| | | | | | | Maximum Sphere Size | 0.500" |
| Efficiency Correction for Impeller Data | | | | | | *Maximum Head @ 1.0 s.g.: | |
| Number of Stages | 1 | 2 | 3 | 4 | 5+ | with nominal outside dia. | 868 ft |
| Deduct No. Points | 4 | 3 | 2 | 1 | 0 | with minimum outside dia. | 524 ft |

| Lengths | | Operational | |
|--|-----------------|--|---------------------------|
| Column Adapter | 1.625" | Minimum Required Submergence | Consult Factory |
| Discharge Case | 3.937" | Standard Construction Materials | |
| Bowl | 7.125" | Bowl | A48-30 c.i. (porcelain) |
| Suction Case | 8.125" | Impeller | C83800 br. |
| Suction Bell | 6.750" | Bowl Shaft | 416 stainless steel |
| Submersible Motor Adapter | Consult Factory | Shaft Coupling | C1215 steel |
| Approximate Shipping Weights | | Lock Collet | C1215 steel |
| First Stage | 108# | Cap Screw | grade 5 |
| Additional Stage | 38# | Bowl Bearing | C93200 br./buna-N A40 |
| | | Suction/Submersible Motor Adapter Bearing | C93200 br. |
| Miscellaneous | | Throttle Bearing | C93200 br. |
| Hub Projection on Bell Suction | 0.000" | Sand Collar | C93200 br. |
| Cable Guard Height | 0.500" | Column Adapter/Discharge Case/Suction Case | A48-30 c.i. |
| Distance from Impeller Eye to Bottom of Bell Suction | 7.500" | Submersible Motor Adapter | A48-30 c.i. |
| | | Tube Adapter | cl. 65-45-12 ductile iron |

* Not valid for submersible applications -- o-rings required if the maximum operating head will exceed 500'